EIKI

Eiki A-3
Movement sensor
Instruction Manual

Package contents	
Item	*Qty.*
Movement sensor	1
Manual	1

V:E1.01

To the Installer

Thank you for choosing **Eiki A-3.**

The A-3 uses passive infra-red technology to detect movement in a room. It is intended to be used with the Eiki range of control systems to automatically shut down equipment in the room after a period of time when no movement is detected, so saving energy and maximising projector lamp life.
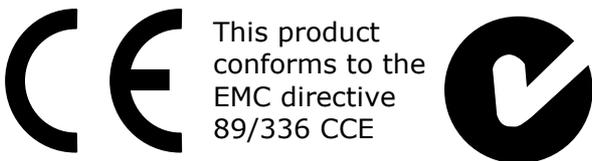
Before commencing installation, please read these instructions carefully to get the best results from your A-3.

For your safety

Please ensure that any wiring used to connect A-3 to other equipment is kept clear of mains wiring and follows applicable local wiring codes. Under **no circumstances** may an A-3 be connected directly to power mains wiring.

Make sure that the power supply you are using meets your local safety regulations and that its voltage does not exceed 15 volts DC. Unregulated power supplies can output voltages that are well above what is shown on their label.

The A-3 is intended for **indoor** use only.

This product conforms to the EMC directive 89/336 CCE

NOTE: This symbol and recycle system apply to EU countries only and do not apply to countries in other areas of the world.

Your EIKI product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic products.

Mounting

Choose a location on a wall that is preferably 3 to 4 metres from the floor, not adjacent to heating or air conditioning outlets or opposite windows and where people moving in the room can be "seen" by the A-3.
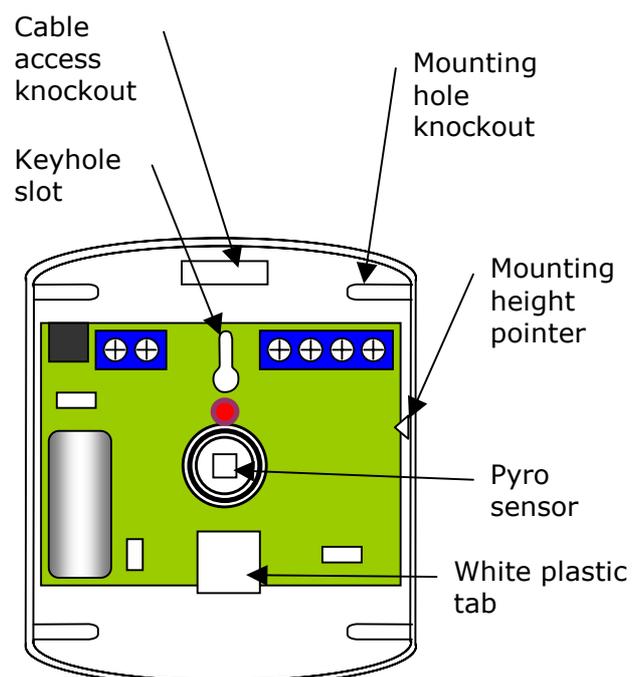
Remove the cover by placing a small flat-bladed screwdriver in the bottom of the case and gently prise the cover off.

DO NOT TOUCH THE PYRO SENSOR INSIDE WITH YOUR FINGERS!

You may remove the circuit board to facilitate mounting the base to the wall. To do this, lift the white plastic tab at the lower side and push the board up until it clears the keyhole slot at the top. At this point the board may be lifted out of the base.

When replacing the board, to achieve optimum coverage, adjust the position of the board in the base to match the height of the A-3 above the floor. Moving the board higher will lower the beam angle. Please refer to the Mounting Height scale on the right-hand side of the board.
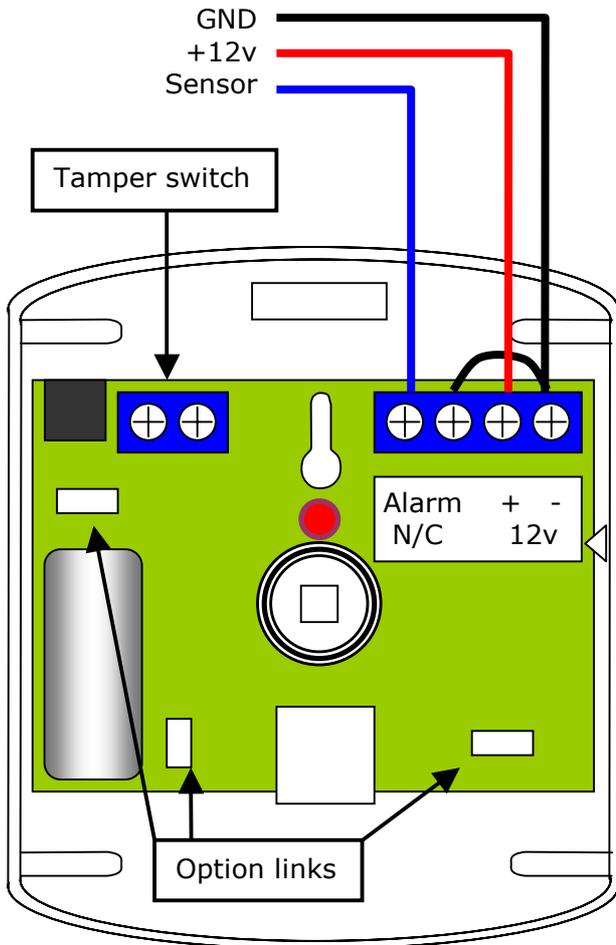
After wiring, refit the cover with its lens. The cover must be in place in order to test the A-3.

Cable access knockout

Mounting hole knockout

Keyhole slot

Mounting height pointer

Pyro sensor

White plastic tab

Wiring

Connect the terminals as shown in the diagram to the control panel or access port.

You do not need to connect the tamper switch terminals.

Option Links

For the purpose of detecting room occupancy, we are not as concerned about false alarms as we would be if this were a security system. In fact, **not** detecting room movement (when people **are** in the room) would be more of a problem.

For this reason, **Long Range** and **Short Pulse Count** links should be fitted. Similarly, having the LED activate is a benefit.

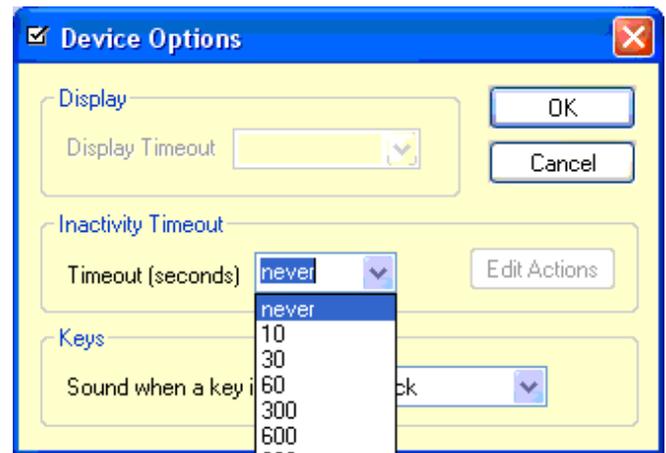**So for our application, fit all 3 links.**

Testing

With the cover fitted, apply power and wait at least 30 seconds. After this time, if there is no movement, the LED should go out. Once this has happened, any movement should cause a couple of rapid flickers and the LED should lock on for about 5 seconds.

Walk around the room and check that your movement can be reliably detected. If range seems to be inadequate, check the position of the PCB in the base. A higher position lowers the angle of the detection beam.

Programming your control panel to recognise the A-3 and perform actions

In Eiki Control System editor, select **Device Options** under the **Handset** menu.

The Inactivity Timeout option allows you to choose the number of seconds (up to 14400 seconds which is 240 minutes) after either the last key is pressed **or** the A-3 sensor detects movement. When that time expires with no movement detected or key pressed, the actions you choose under Edit Actions will occur.

After you have selected the time, click Edit Actions. You can treat this just like the programming of any other key.

For more information

Please refer to the control panel's manual for more information.

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